

High School Number Sense
Grade Standards, Supporting Skills, and Examples

Indicator 1: Analyze the structural characteristics of the real number system and its various subsystems. Analyze the concept of value, magnitude, and relative magnitude of real numbers.

Core HS Standards
9-12.N.1.1. (Comprehension) Identify multiple representations of a real number.
9-12.N.1.2. (Comprehension) Apply the concept of place value, magnitude, and relative magnitude of real numbers.
Advanced HS Standards
9-12.N.1.1A. (Comprehension) Describe the relationship of the real number system to the complex number system.
9-12.N.1.2A. (Application) Apply properties and axioms of the real number system to various subsets, e.g., axioms of order, closure.

Indicator 2: Apply operations within the set of real numbers.

Core HS Standards
9-12.N.2.1. (Comprehension) Add, subtract, multiply, and divide real numbers including integral exponents.
Advanced HS Standards
9-12.N.2.1A. (Application) Add, subtract, multiply, and divide real numbers including rational exponents.

Indicator 3: Develop conjectures, predictions, or estimations to solve problems and verify or justify the results.

Core HS Standards
9-12.N.3.1. (Analysis) Use estimation strategies in problem situations to predict results and to check the reasonableness of results.
9-12.N.3.2. (Comprehension) Select alternative computational strategies and explain the chosen strategy.
Advanced HS Standards
<i>Note: Skills for this indicator have been subsumed within applications to advanced skills by the time students reach advanced high school mathematics.</i>